Listing of Claims:

- 1. (Currently amended) A method for making an anodic oxide coating on a valve metal electrically conductive comprising:
- 1) placing an anodized valve metal in a low water content polar aprotic solvent having a water content below about 0.1 wt. % containing an ionogen;
 - 2) cooling the solvent to a temperature between -20°C and -60°C;
 - 3) inserting a counter electrode in said solvent; and
- 4) connecting said valve metal and said counter electrode to a power supply so that the valve metal is biased positive and passing a current.
- 2. (Previously presented) A method according to claim 1 wherein the valve metal is selected from the group consisting of tantalum, aluminum, niobium and titanium.
- 3. (Currently amended) A method according to claim 1 wherein the polar aprotic solvent is selected from the group consisting of <u>1</u>), dimethyl formamide and <u>2</u>), about 25 vol % dimethylsulfoxide/75 vol % 4-butyrolactone.
- 4. (Previously presented) A method according to claim 1 wherein said ionogen is selected from the group consisting of monocarboxylic acids, dicarboxylic acids, and sulfonic acids.
- 5. (Currently amended) A method for coating an anodized valve metal oxide with a conductive polymer comprising the steps of:
- 1) placing an anodized valve metal in a low water content polar aprotic solvent having a water content below about 0.1 wt. % containing an ionogen;
 - 2) adding a monomer precursor for a conductive polymer;

- 3) cooling the solvent to a temperature between -20°C and -60°C;
- 4) inserting a counter electrode in said solvent, and
- 5) connecting said valve metal and said counter electrode to a power supply so that the valve metal is biased positive and passing a current.
- 6. (Currently amended) A method according to claim 5 wherein the monomerprecusor monomer precusor is selected from the group consisting of pyrrole, thiophene, aniline and derivatives thereof.
- 7. (Previously presented) A method according to claim 5 wherein the valve metal is selected from the group consisting of tantalum, aluminum, niobium and titanium.
- 8. (Currently amended) A method according to claim 5 wherein the polar aprotic solvent is selected from the group consisting of 1) dimethyl formamide and 2) about 25 vol % dimethylsulfoxide/75 vol % 4-butyrolactone.
- 9. (Previously presented) A method according to claim 5 wherein said ionogen is selected from the group consisting of monocarboxylic acids, dicarboxylic acids, and sulfonic acids.
- 10 (Currently amended) A method for plating a metal on an anodized valve metal oxide comprising:
- 1) placing an anodized valve metal in a low water content polar aprotic solvent <u>having a water content below about 0.1 wt. %</u> containing an ionogen;
 - 2) cooling the solvent to a temperature between -20°C and -60°C;

- 3) inserting a counter electrode in said solvent; and
- 4) connecting said valve metal and said counter electrode to a power supply so
- 5) that the valve metal is biased positive and passing a current until the oxide is conductive; and connecting said valve metal and counter electrode to a power supply so that the valve metal is biased negative;

wherein a salt of a conductive metal is added at any time after step 1.

11. (Currently amended) A method according to claim 10 wherein said salt is selected from the group consisting of a salts of silver, gold, copper and zinc-salts.